

## Title (en)

Laparoscopic adjustable gastric banding device and method for implantation and removal thereof.

## Title (de)

Laparoskopisches einstellbares Magenband sowie Verfahren zum Implantieren und Entfernen dieses Bandes.

## Title (fr)

Bande gastrique ajustable pour laparoscopie et méthode pour son implantation et enlèvement.

## Publication

**EP 0611561 A1 19940824 (EN)**

## Application

**EP 93307597 A 19930924**

## Priority

- US 1930293 A 19930218
- US 4387293 A 19930407
- US 5959293 A 19930512

## Abstract (en)

An adjustable gastric banding device (10) for regulating the size of a stoma opening in the stomach of a patient includes an elongate band (12) having a portion (12a) that encircles the stomach so as to limit the food intake by the digestive portion of the stomach. The device can be readily implanted and removed using laparoscopic procedures. A locking element (20) protruding from a location near the distal end of the encircling band portion (12a) is inserted into a slot (22) formed in a receiving segment (126) at an intermediate location along the encircling band portion (12a) so as to form a circle or loop of fixed diameter. The receiving segment (12b) has a thickness which is greater than the thickness of the encircling band portion (12a) and of the rear portion (12c) of the band. A movable bolt (30) secures the locking element (20) in the slot (22). The bolt (30) can be displaced remotely, thus releasing the locking element (20) and allowing easy laparoscopic removal of the banding device (10). The entire circumference of the stomach encircling band portion (12a) is covered by an expandable section (24) in contact with the surface of the stomach. The size of the stoma opening can be adjusted by injecting into or removing fluid from the expandable section (24). <IMAGE>

## IPC 1-7

**A61F 5/00**; **A61B 17/12**; **A61F 2/00**

## IPC 8 full level

**A61B 17/12** (2006.01); **A61F 5/00** (2006.01); **A61B 17/135** (2006.01)

## CPC (source: EP)

**A61B 17/12013** (2013.01); **A61F 5/0053** (2013.01); **A61F 5/0066** (2013.01); **A61F 5/0089** (2013.01); **A61B 17/135** (2013.01)

## Citation (search report)

- [XD] US 5074868 A 19911224 - KUZMAK LUBOMYR I [US]
- [X] WO 8604498 A1 19860814 - ASTRA MEDITEC AB [SE]
- [A] DE 4133800 C1 19930121

## Cited by

FR2834445A1; FR2834443A1; US7297103B2; WO03057090A1; WO03057091A1; WO0110359A1; US7500944B2; US7951067B2; FR2840193A1; EP2345377A1; FR2834631A1; EP2493395A4; EP1319371A3; FR2834444A1; FR2797181A1; AU781040B2; US6067991A; EP0769282A1; FR2929839A1; EP1237486A4; EP0705566A1; US5860987A; EP0702529A4; EP1205148A1; US9775709B2; WO03059215A1; WO2009136120A3; US10376266B2; US7488336B2; US11259790B2; US10472750B2; US11612472B2; EP1091707B1; JP2007044498A; WO0152777A1; WO2018100593A3; WO03101352A1; WO9856321A1; US9662209B2; US10080639B2; US10098737B2; US11471256B2; US9730793B2; US9750837B2; US9949812B2; US10299793B2; US10952836B2; WO03057092A3; US9636224B2; US9655724B2; US9713530B2; US10350068B2; US10363690B2; US10548729B2; US10856986B2; US7766815B2; US10184032B2; US10682215B2; US10815345B2; US11123171B2; US11696819B2; US9883943B2; US9968454B2; US9974653B2; US10449333B2; US10470882B2; US10561498B2; WO2009048368A1; US7662087B2; US9872769B2; US10182823B2; US10219898B2; US10492909B2; US10959736B2; US7753841B2; US9937042B2; US10517719B2; US10646321B2; US10856987B2; US11389282B2; US11723774B2; US11766327B2; US6210347B1; EP1554998A1; EP2002809A1; US6460543B1; EP2292191A1; EP2295010A1; US9839505B2; US9918840B2; US10675137B2; US11672636B2; US9724192B2; US9931198B2; US9949828B2; US10568738B2; US10660741B2; US11439498B2; US11857415B2; FR2783153A1; WO0015158A1; US6547801B1; US9622843B2; US10265170B2; US10743976B2; US11826242B2; US10070948B2; US10583234B2; US10792152B2; EP4285842A2; US9968452B2; US9980802B2; US10709538B2; US11039912B2; US11903807B2; WO2015055941A1; EP3434230A1; US10537455B2; EP3895670A1; EP3928749A1

## Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

## DOCDB simple family (publication)

**EP 0611561 A1 19940824**; **EP 0611561 B1 19981202**; AT E173909 T1 19981215; DE 69322370 C5 20090108; DE 69322370 D1 19990114; DE 69322370 T2 19990520; DK 0611561 T3 19990816; ES 2125310 T3 19990301; GR 3029532 T3 19990630; MX 9307063 A 19940831

## DOCDB simple family (application)

**EP 93307597 A 19930924**; AT 93307597 T 19930924; DE 69322370 T 19930924; DK 93307597 T 19930924; ES 93307597 T 19930924; GR 990400627 T 19990301; MX 9307063 A 19931111